

# C5102-0060 | 19-inch slide-in Industrial PC

| Variants          | Processor  | available     |
|-------------------|--|---------------|
| <b>C5102-0050</b> | Intel® Celeron®, 2 Cores (TC3: 50*) or Intel® Core™ i3, 2 Cores (TC3: 60*) or Intel® Core™ i5, 2 Cores (TC3: 70*) or Intel® Core™ i7, 4 Cores (TC3: 80*)   | yes           |
| <b>C5102-0060</b> | Intel® Pentium®, 2 Cores (TC3: 50*) or Intel® Core™ i3, 2 Cores (TC3: 60*) or Intel® Core™ i5, 2 Cores (TC3: 70*) or Intel® Core™ i5, 4 Cores (TC3: 70*) or Intel® Core™ i7, 4 Cores (TC3: 80*) (4th generation) | yes           |
| <b>C5102-0070</b> | Intel® Celeron®, 2 Cores (TC3: 50*) or Intel® Pentium®, 2 Cores (TC3: 50*) or Intel® Core™ i3, 2 Cores (TC3: 60*) or Intel® Core™ i5, 4 Cores (TC3: 70*) or Intel® Core™ i7, 4 Cores (TC3: 80*) (6th generation) | December 2016 |

\*The TwinCAT 3 performance class defines the exact ordering number for the respective TwinCAT 3 product. Please see [here](#) for an overview of the TC3 performance classes.

| C5102-0060                           | 19-inch slide-in Industrial PC  |
|--------------------------------------|---|
| <b>Housing</b>                       | 7-slot slide-in housing ATX for 19-inch racks, 4 rack units   |
|                                      | all slots for full-length plug-in cards   |
|                                      | lockable front flap   |
|                                      | card holders  |
|                                      | protection class IP 60 when operating   |
|                                      | operating temperature 0...55 °C   |
|                                      | weight of the basic configuration 17.0 kg (37.5 lbs)  |
|                                      | dimensions (W x H x D) 483 x 177 x 500 mm (19" x 7" x 19.5")  |
| <b>Features</b>                      | processor Intel® Pentium® G3320TE 2.3 GHz, 2 cores (TC3: 50)  |
|                                      | ATX motherboard for 4th Generation Intel® Core™ i3, Core™ i5, Core™ i7 or Pentium®  |
|                                      | 2 PCIe x1 slots, 1 PCIe x4 slot, 1 PCIe x16 slot and 3 PCI slots free   |
|                                      | 2 GB DDR3L RAM, expandable to 32 GB   |
|                                      | Graphic adapter integrated inside the Intel® processor, 2 DVI and 1 DisplayPort connector.  |
|                                      | on-board dual Ethernet adapter with 2 x 100/1000BASE-T connector  |
|                                      | on-board SATA RAID 1 controller, Intel® Rapid Storage Technology  |
|                                      | hard disk, 3½-inch, 1 TB  |
|                                      | 4 serial ports RS232 on-board, 1 of these RS232 ports is led out with 9-pin D-sub connectors;<br>10 USB 2.0, 2 of these USB ports are led out at the rear side and 2 are behind the front flap;<br>4 USB 3.0, 2 of these USB ports are led out at the rear side |
|                                      | PS/2 keyboard socket and PS/2 mouse socket  |
| 100–240 V AC full range power supply |   |

| Options           | C5102-0060  |
|-------------------|---|
| <b>C9900-C559</b> | processor 4th Generation Intel® Core™ i3 4330TE, 2.4 GHz, 2 cores (TC3: 60), instead of Intel® Pentium® G3320TE 2.3 GHz (TC3: 50) |
| <b>C9900-C568</b> | processor 4th Generation Intel® Core™ i3 4350T, 3.1 GHz, 2 cores (TC3: 60), instead of Intel® Pentium® G3320TE 2.3 GHz (TC3: 50)  |
| <b>C9900-C560</b> | processor 4th Generation Intel® Core™ i5 4570TE, 2.7 GHz, 2 cores (TC3: 70), instead of Intel® Pentium® G3320TE 2.3 GHz (TC3: 50) |
| <b>C9900-C569</b> | processor 4th Generation Intel® Core™ i5 4590T, 2.0 GHz, 4 cores (TC3: 70), instead of Intel® Pentium® G3320TE 2.3 GHz (TC3: 50)  |
| <b>C9900-C561</b> | processor 4th Generation Intel® Core™ i7 4770TE, 2.3 GHz, 4 cores (TC3: 80), instead of Intel® Pentium® G3320TE 2.3 GHz (TC3: 50) |
| <b>C9900-R257</b> | memory extension to 4 GB DDR3L RAM, instead of 2 GB, requires a 64 bit operating system or only 3 GB are addressable              |
| <b>C9900-R258</b> | memory extension to 8 GB DDR3L RAM, instead of 2 GB, requires a 64 bit operating system   |
| <b>C9900-R259</b> | memory extension to 16 GB DDR3L RAM, instead of 2 GB, requires a 64 bit operating system  |
| <b>C9900-R260</b> | memory extension to 32 GB DDR3L RAM, instead of 2 GB, requires a 64 bit operating system  |
| <b>C9900-M711</b> | telescope rails to be mounted at the sides of the C51xx, for complete pull-out from the 19-inch rack                              |
| <b>C9900-E195</b> | 2 USB ports of the motherboard led out in one slot bracket  |
| <b>C9900-E166</b> | 2 serial interfaces RS232 of the motherboard led out with 2 D-sub 9-pin connectors in one slot bracket                            |

|            |   |
|------------|---|
| C9900-E203 | 1 serial port RS232 from the motherboard led out with one D-sub, 9-pin connector in one slot bracket  |
| C9900-E209 | Module to optically link one serial RS232 port of the motherboard, with overload protection, D-sub, 9-pin, to be mounted inside of slot bracket C9900-M568, C9900-M569 or inside a C66xx at the connector bracket C9900-M571. A bracket is required.  |
| C9900-E210 | Module to convert one serial RS232 port of the motherboard into RS485, configured as an end point without echo, D-sub, 9-pin, optically linked, overload protection, to be mounted inside the slot brackets C9900-M568, C9900-M569 or inside a C66xx at the connector bracket C9900-M571. A slot bracket is required. |
| C9900-E211 | Module to convert one serial RS232 port of the motherboard into RS422, configured as a full duplex end point, D-sub, 9-pin, optically linked, overload protection, to be mounted inside the slot brackets C9900-M568, C9900-M569 or inside a C66xx at the connector bracket C9900-M571. A bracket is required.        |
| C9900-M568 | Slot bracket for one serial port C9900-E209, C9900-E210 or C9900-E211. Can be ordered only together with one module.  |
| C9900-M569 | Slot bracket for two serial ports C9900-E209, C9900-E210 or C9900-E211. Can be ordered only together with two modules.  |
| C9900-D192 | slot for 1 CFast card, SATA connector, for installation into a plug-in card slot  |
| C9900-H556 | 4 GB CFast card, SLC flash, extended temperature range, instead of 3½-inch hard disk, less price  |
| C9900-H557 | 8 GB CFast card, SLC flash, extended temperature range, instead of 3½-inch hard disk, less price  |
| C9900-H558 | 16 GB CFast card, SLC flash, extended temperature range, instead of 3½-inch hard disk   |
| C9900-H566 | 32 GB CFast card, SLC flash, extended temperature range, instead of 3½-inch hard disk   |
| C9900-H570 | 64 GB CFast card, SLC flash, extended temperature range, instead of 3½-inch hard disk   |
| C9900-H201 | hard disk drive, 3½-inch, 2 TB, instead of hard disk 1 TB   |
| C9900-H202 | hard disk drive, 3½-inch, 4 TB, instead of hard disk 1 TB, requires a 64 bit operating system and UEFI instead of BIOS  |
| C9900-B528 | BIOS for booting from storage media bigger than 2 TB, UEFI activated  |
| C9900-H152 | additional hard disk drive, 3½-inch, 1 TB   |
| C9900-H203 | additional hard disk drive, 3½-inch, 2 TB   |
| C9900-H204 | additional hard disk drive, 3½-inch, 4 TB   |
| C9900-H704 | solid-state disk SSD, SLC flash, 2½-inch, 32 GB, with mounting adapter, instead of 3½-inch hard disk  |
| C9900-H709 | solid-state disk SSD, SLC flash, 2½-inch, 64 GB, with mounting adapter, instead of 3½-inch hard disk  |
| C9900-H740 | solid-state disk SSD, SLC flash, 2½-inch, 128 GB, with mounting adapter, instead of 3½-inch hard disk   |
| C9900-M617 | removable frame for a 3½-inch hard disk   |
| C9900-M628 | removable frame for a 2½-inch SSD   |
| C9900-H741 | solid-state disk SSD, 3D MLC flash, 2½-inch, 120 GB   |
| C9900-H749 | solid-state disk SSD, 3D MLC flash, 2½-inch, 240 GB   |
| C9900-H745 | solid-state disk SSD, 3D MLC flash, 2½-inch, 480 GB   |
| C9900-H743 | solid-state disk SSD, 3D MLC flash, 2½-inch, 120 GB, instead of 3½-inch hard disk   |
| C9900-H751 | solid-state disk SSD, 3D MLC flash, 2½-inch, 240 GB, instead of 3½-inch hard disk   |
| C9900-H747 | solid-state disk SSD, 3D MLC flash, 2½-inch, 480 GB, instead of 3½-inch hard disk   |
| C9900-H700 | solid-state disk SSD, SLC flash, 2½-inch, 32 GB   |
| C9900-H705 | solid-state disk SSD, SLC flash, 2½-inch, 64 GB   |
| C9900-H735 | solid-state disk SSD, SLC flash, 2½-inch, 128 GB  |
| C9900-H702 | solid-state disk SSD, SLC flash, 2½-inch, 32 GB, instead of 3½-inch hard disk   |
| C9900-H707 | solid-state disk SSD, SLC flash, 2½-inch, 64 GB, instead of 3½-inch hard disk   |
| C9900-H737 | solid-state disk SSD, SLC flash, 2½-inch, 128 GB, instead of 3½-inch hard disk  |
| C9900-D120 | CD/DVD-ROM drive  |
| C9900-D245 | multi DVD drive, reads CD-ROM and DVD-ROM, reads and writes CD-R/-RW, DVD-RAM 4.7/9.4 GB, DVD-R/+R/-RW/+RW 4.7 GB and DVD-R/+R DL 8.5 GB  |
| C9900-P208 | 24 V DC power supply, instead of 100–240 V AC full range power supply, occupies one serial port   |
| C9900-P209 | 24 V DC power supply with integrated UPS, instead of 100–240 V AC full range power supply, occupies one serial port   |
| C9900-U330 | battery pack for PCs with 24 V power supply and integrated UPS C9900-P209 or C9900-U209, external, for DIN rail mounting, 3.4 Ah, operating temperature 0...50 °C   |
| C9900-P313 | redundant ATX power supply for C5102, 100-240 V AC, 450 W, instead of standard power supply   |
| C9900-U120 | uninterruptible power supply UPS, external, 230 V   |
| C9900-U122 | uninterruptible power supply UPS, external, 115 V   |
| C9900-M623 | wall mounting frame for uninterruptible power supply C9900-U120 and C9900-U122  |
| C9900-xxxx | Flash cards, PCI and PCIe cards as listed in the attachment.<br>Examples: Compact Flash, CFast, fieldbus interface, network adapter, serial interface card, modem   |